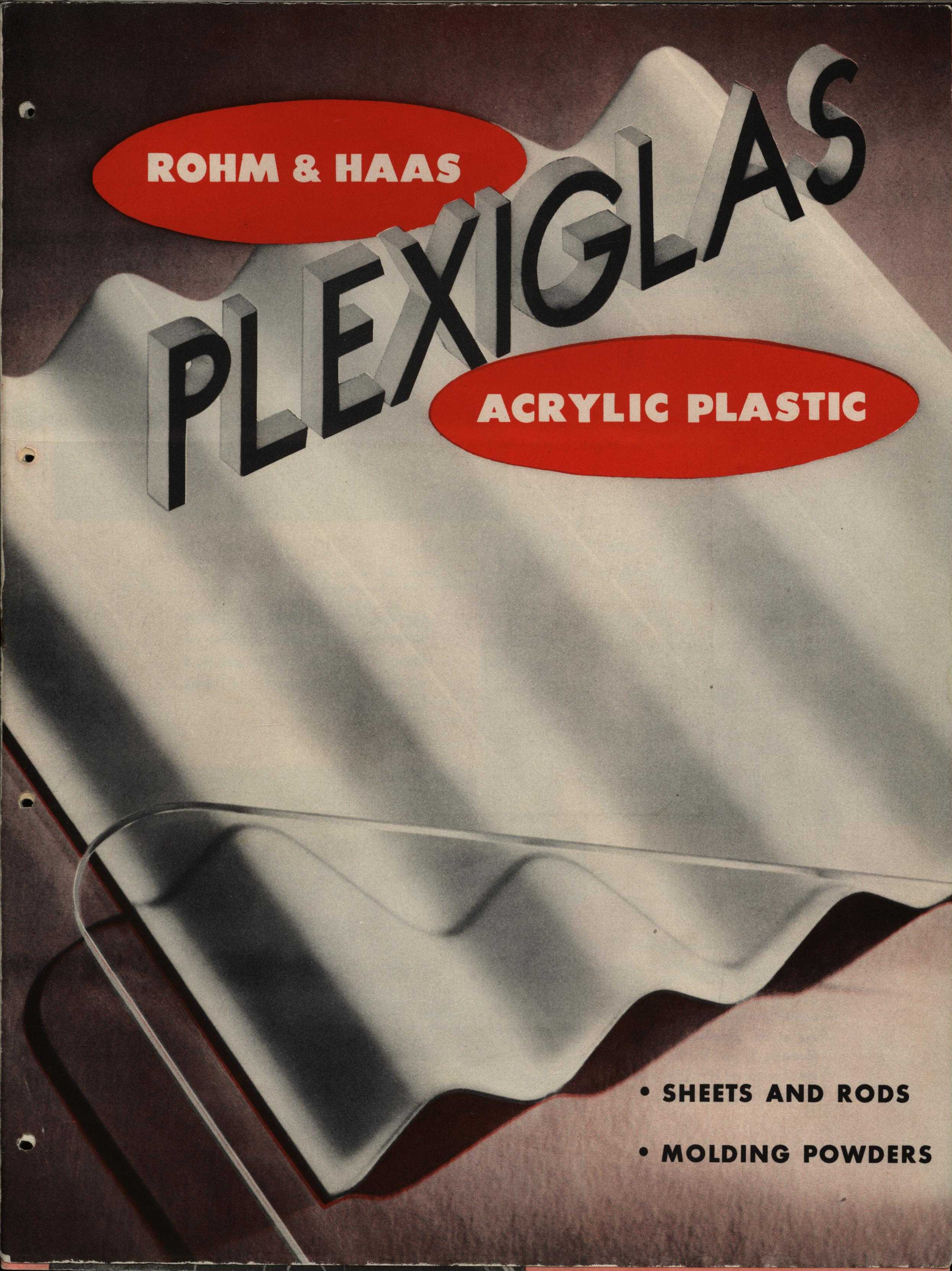


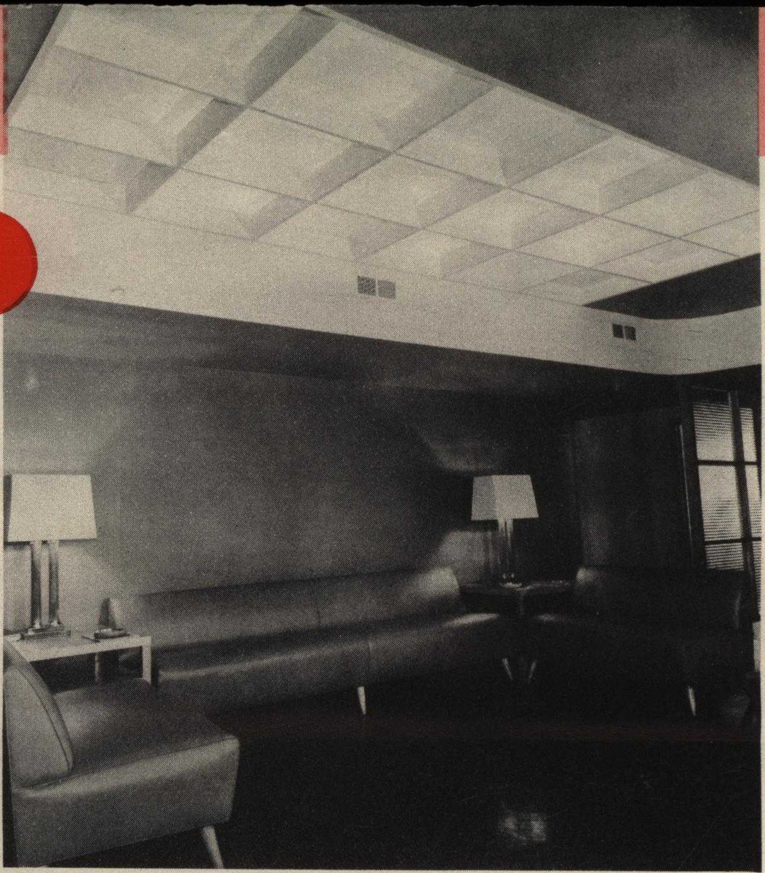
ROHM & HAAS

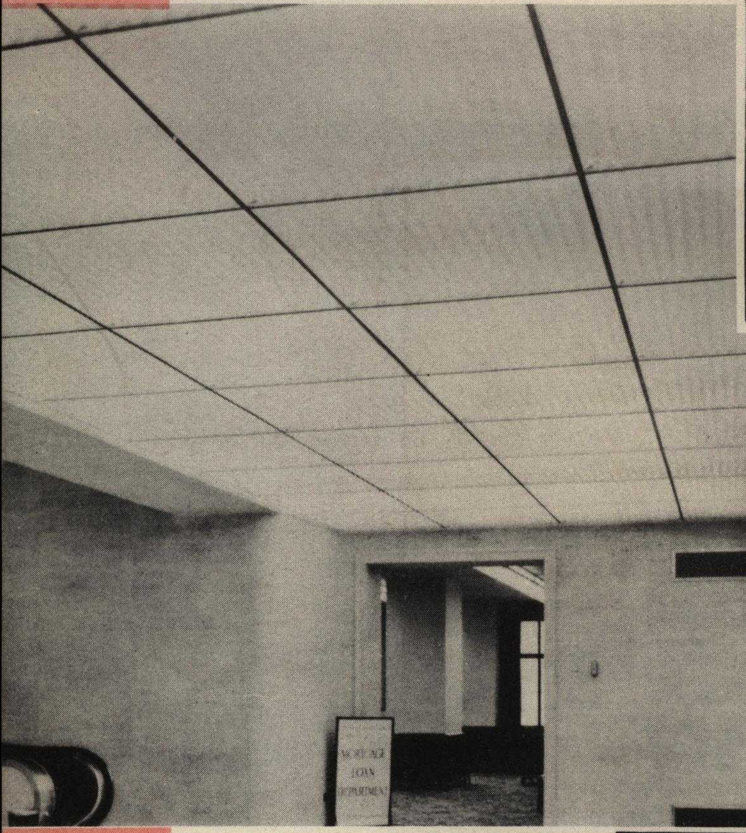
PLEXIGLAS

ACRYLIC PLASTIC

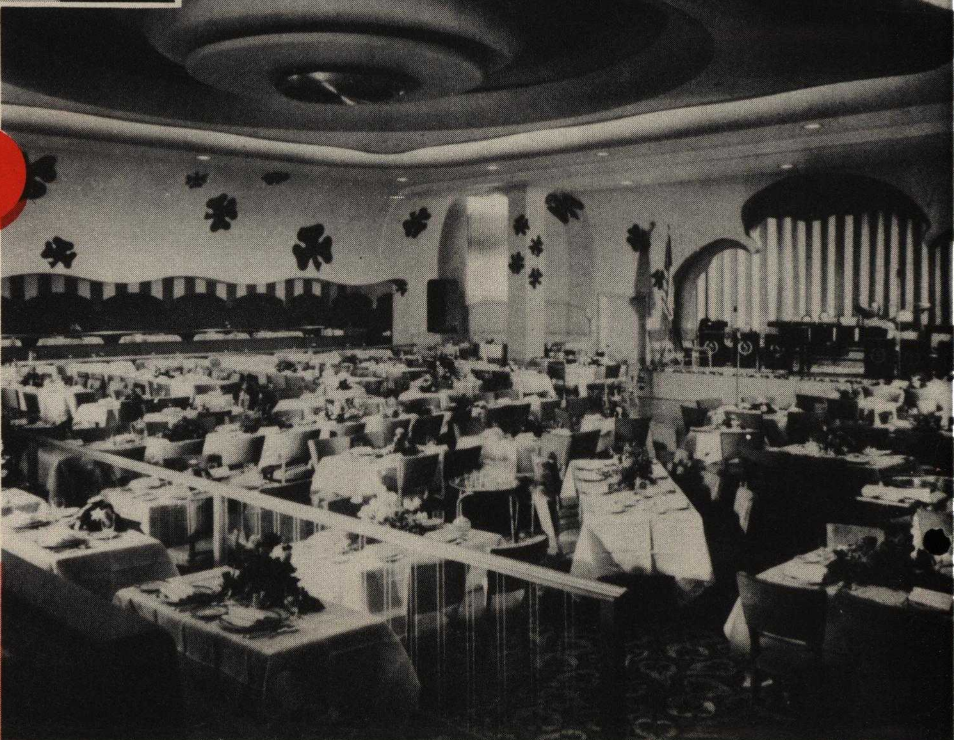
- SHEETS AND RODS
- MOLDING POWDERS

Coffer panels easily formed from sheets of white translucent Plexiglas provide excellent diffusion of light at the Associated Fur Manufacturers office, New York City.

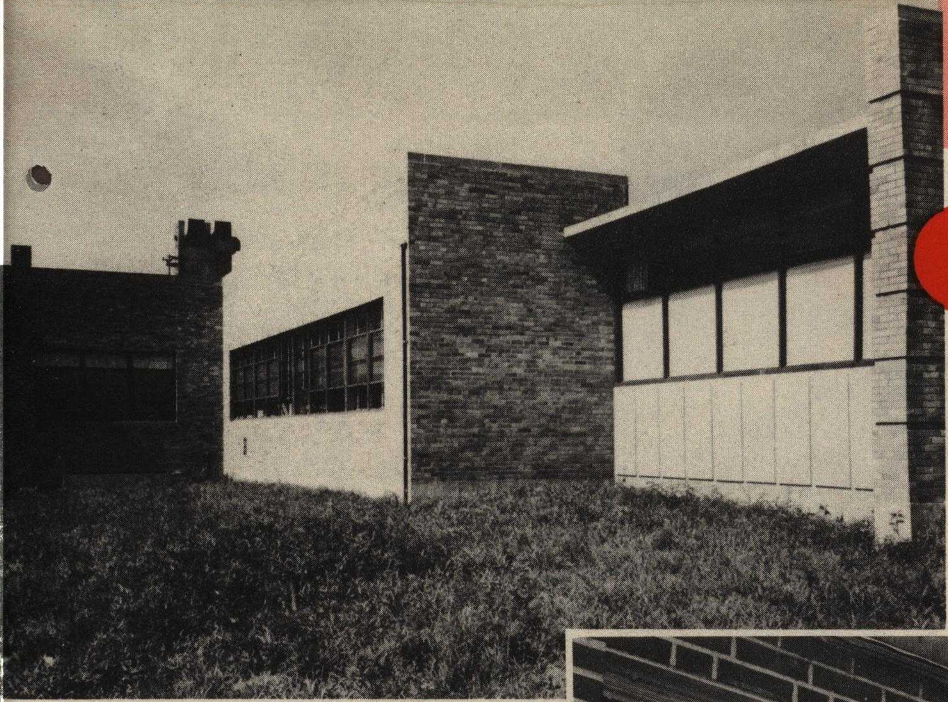




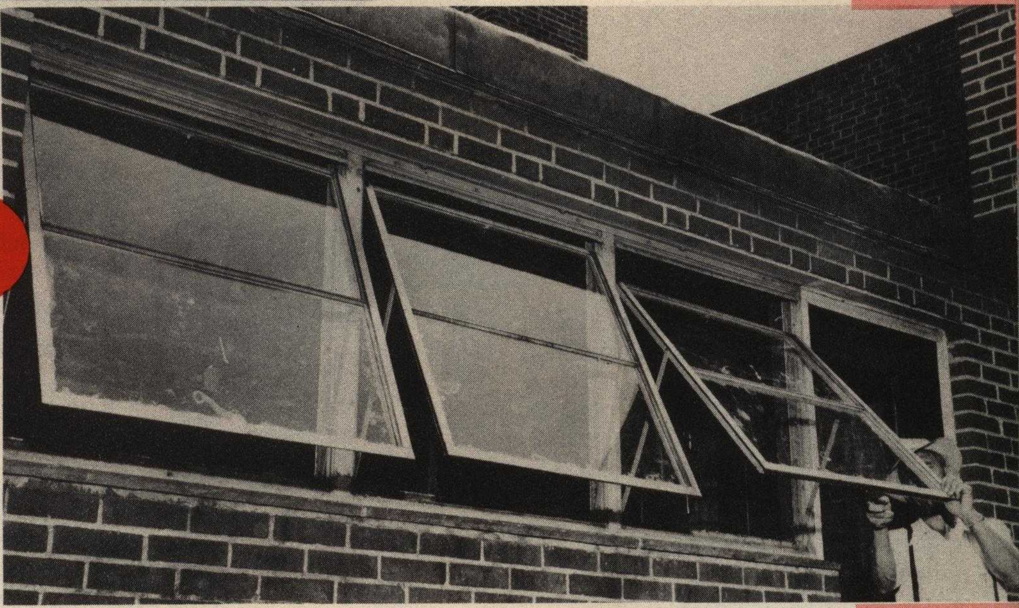
Corrugated white translucent Plexiglas is used as a wall-to-wall diffusing medium in the entrance lobby and elevator foyer of the Central National Bank, Cleveland, Ohio.



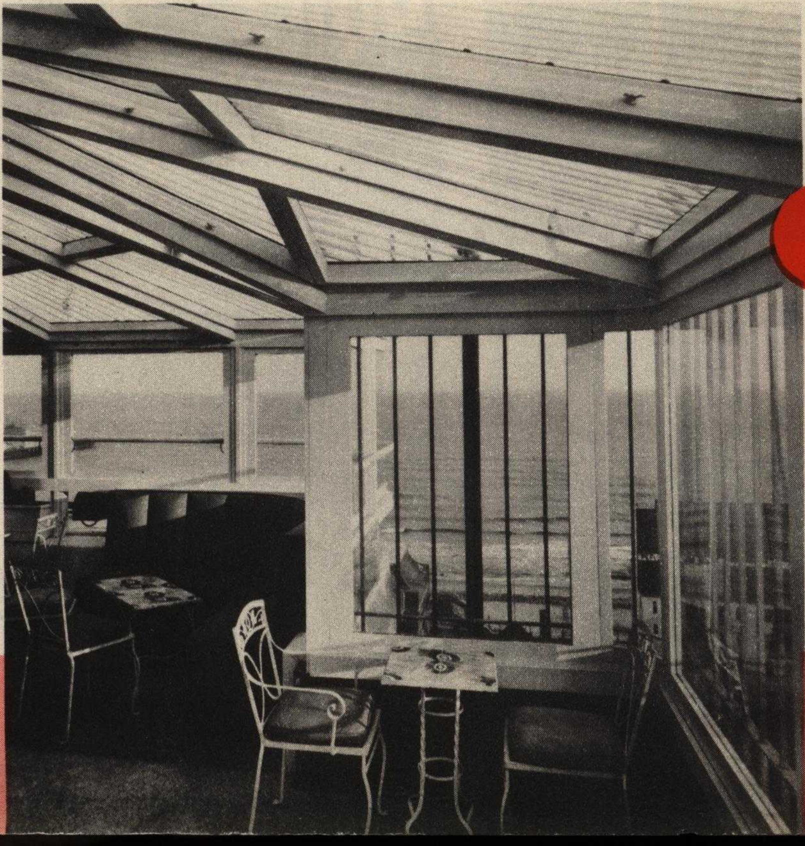
Edgelighted Plexiglas rods, curved and massed in each corner, provide decorative lighting at the Shamrock Hotel in Houston, Texas. Railing panels are transparent Plexiglas sheets, etched with parallel lines.



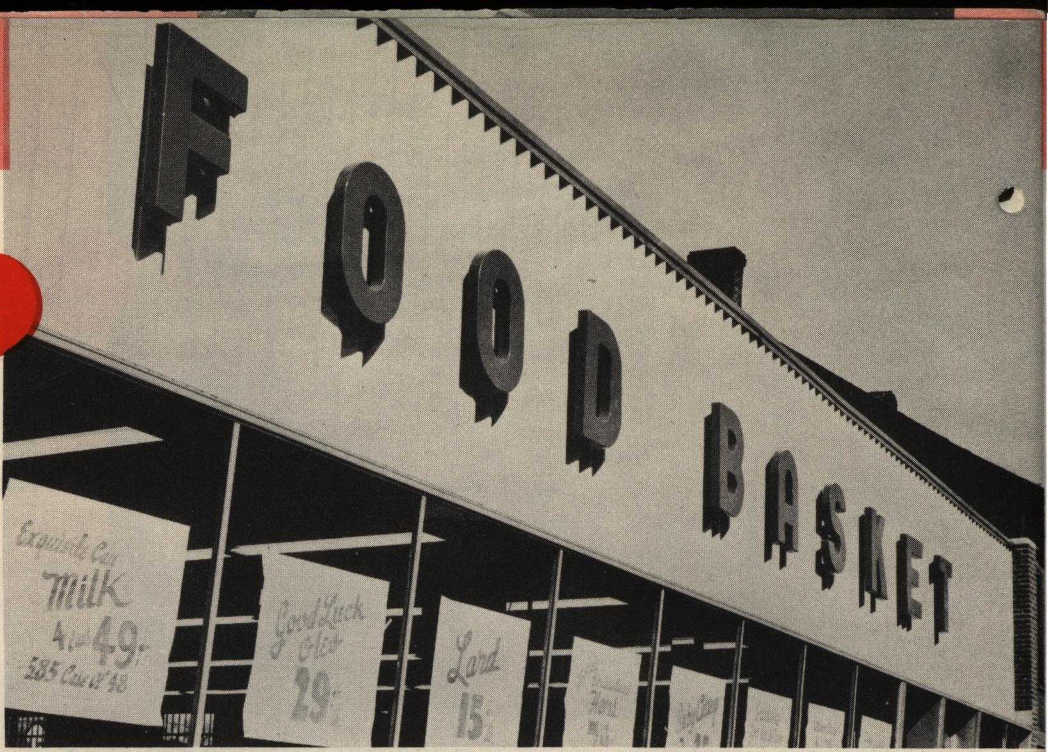
Clear and translucent white Plexiglas windows, breakage-resistant and light in weight, are installed in the offices of the new Seaboard Container Corporation plant at Bristol, Pa.



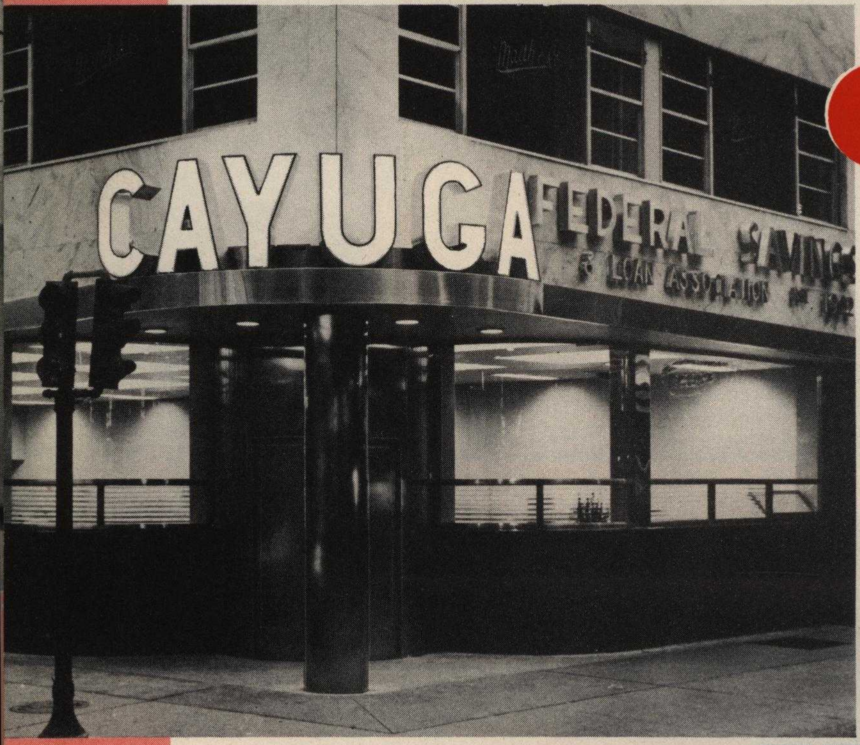
Housing authority projects, such as this one in Camden, N. J., reduce glazing replacement and maintenance costs with shatter-resistant Plexiglas windows.



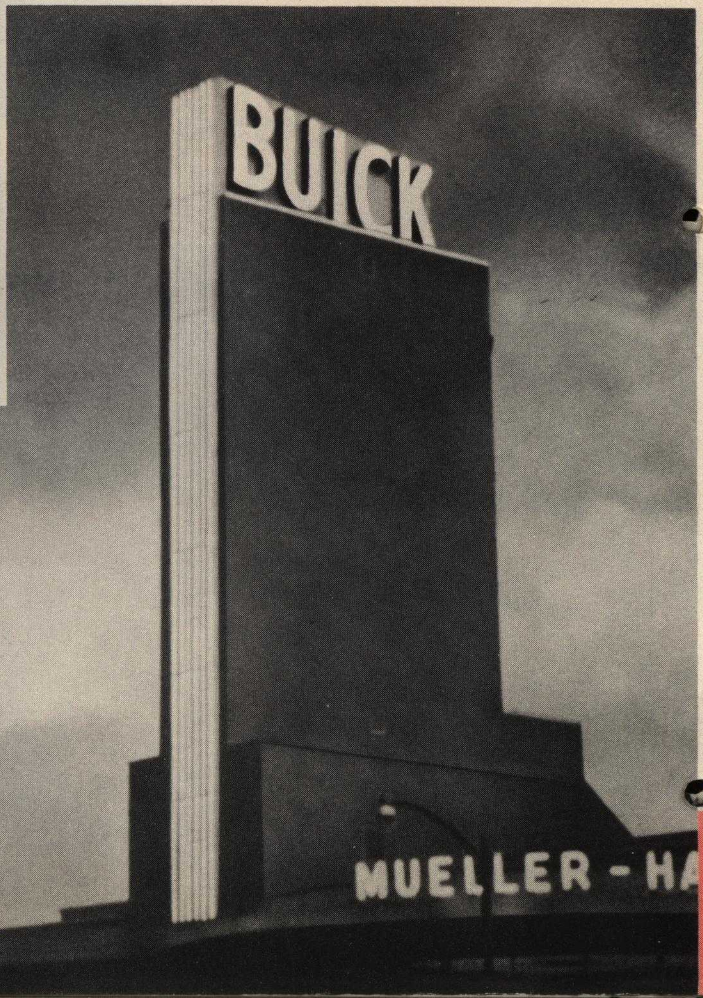
Clear Plexiglas completely encloses the spacious Sky Cabana of the Senator Hotel in Atlantic City, N. J. Side glazing panels are flat sheets; roof sections are corrugated.



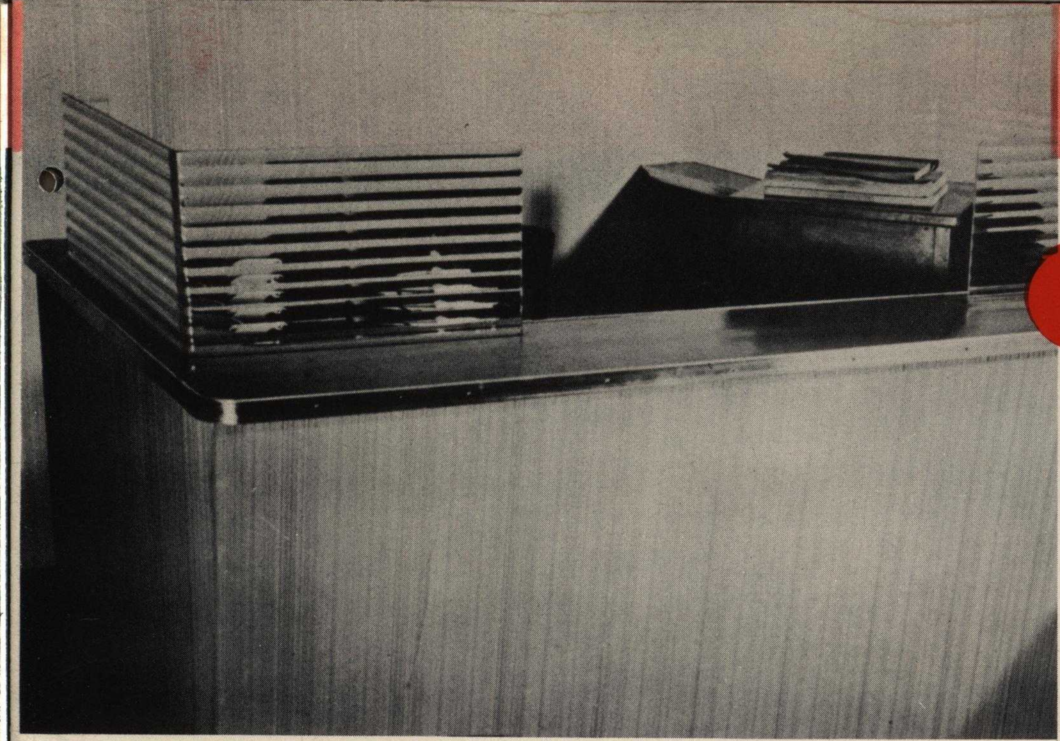
Yellow Plexiglas, formed to a deep V-rib design, makes a colorful background for interior-lighted red Plexiglas letters at this supermarket in Phillipsburg, N. J.



Plexiglas faces on open-backed metal channel letters, mounted above entrance to this savings institution in Philadelphia, Pa., are completely luminous from indirect lighting.

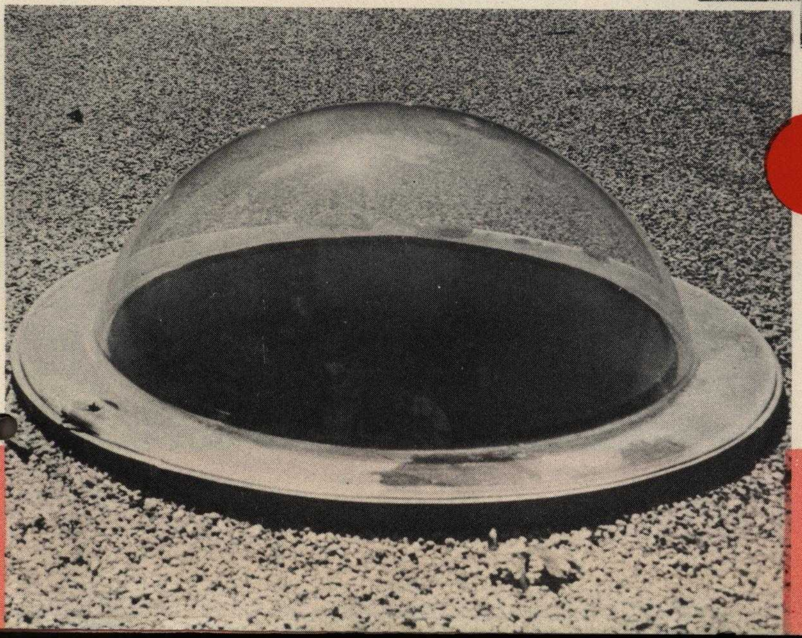


Long distance legibility is assured for this identification sign in Tacoma, Washington, by using faces of glare-free translucent Plexiglas on interior-lighted metal channel letters.

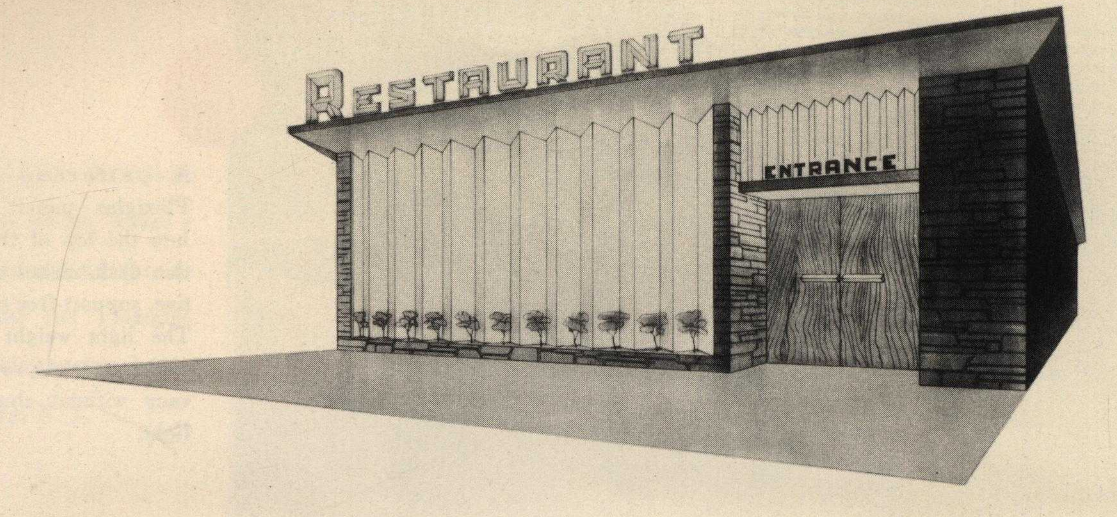


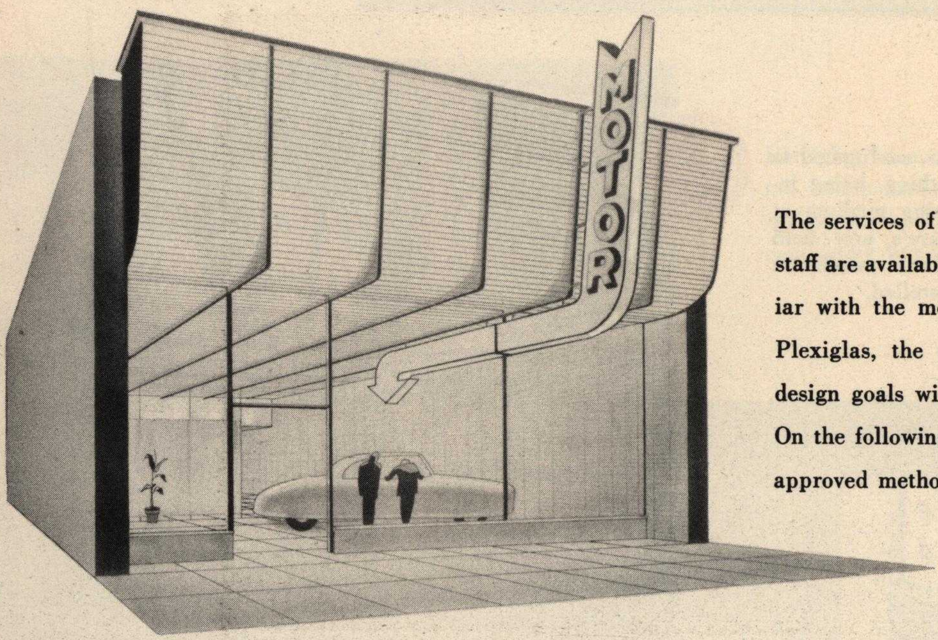
A patterned-surface Plexiglas panel, recessed into the top of this reception desk, makes an attractive, support-free enclosure. The light weight but durable material provides privacy without shutting off light.

White translucent Plexiglas, corrugated to match the aluminum sheathing, being installed as the light-admitting medium at the University of Delaware's new field house. The large acrylic plastic panels are easily handled, quickly installed.



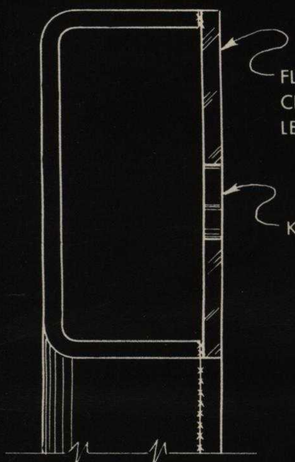
This skylight is formed from a single sheet of transparent Plexiglas. Weather-and-shatter-resistant, such skylights provide maximum transmission of light with long replacement-free service.

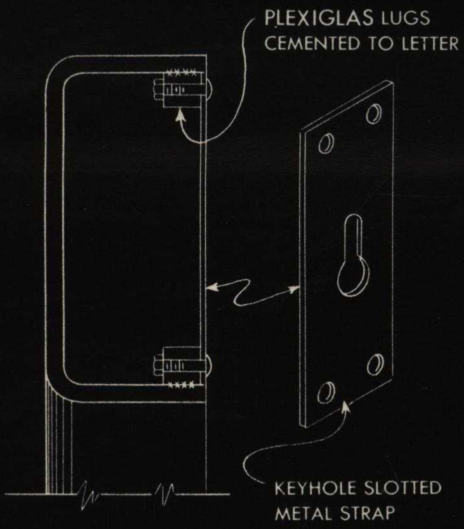


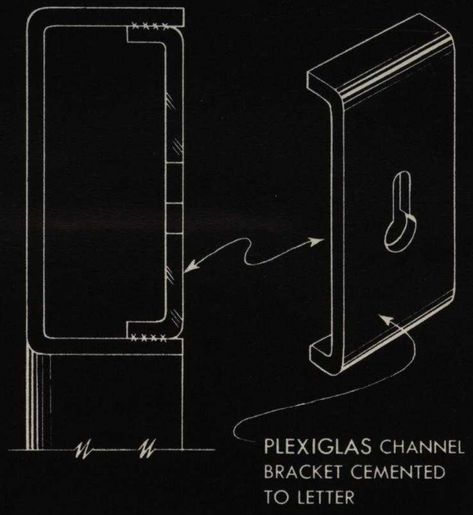


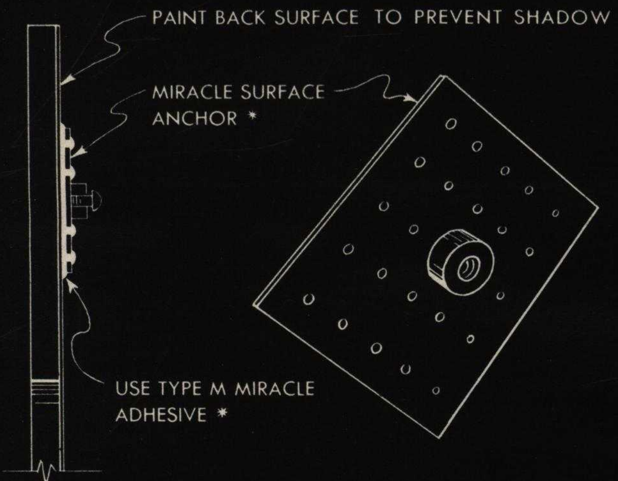
The services of the Rohm & Haas Company design staff are available to architects and designers. Familiar with the most advantageous methods of using Plexiglas, the staff is in a position to correlate design goals with the material's potentialities. . . . On the following pages are details showing various approved methods of mounting Plexiglas.

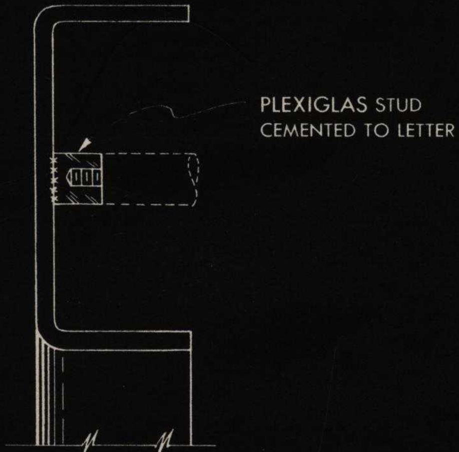
LETTER MOUNTINGS




PLEXIGLAS LUGS CEMENTED TO LETTER
KEYHOLE SLOTTED METAL STRAP

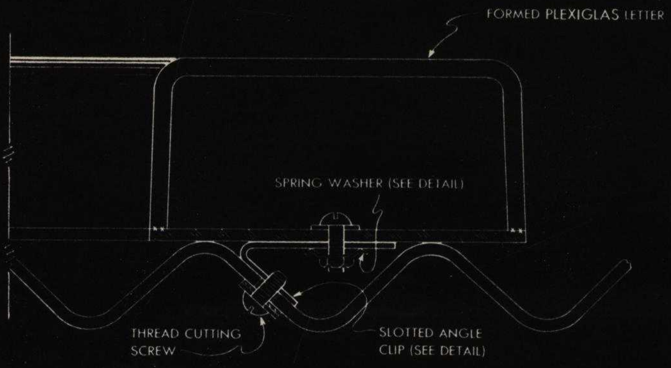


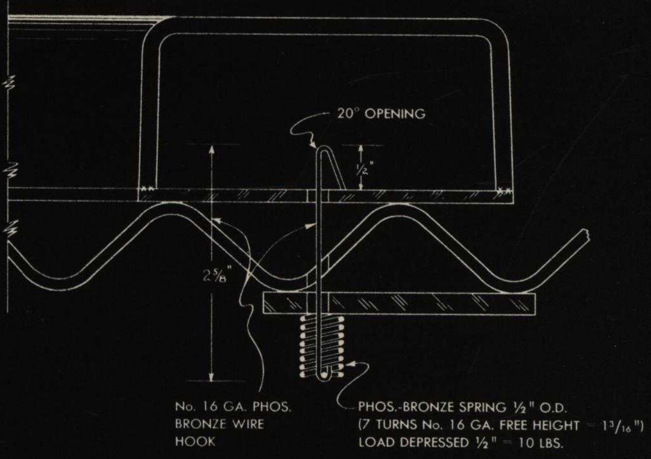

PAINT BACK SURFACE TO PREVENT SHADOW
MIRACLE SURFACE ANCHOR *
USE TYPE M MIRACLE ADHESIVE *

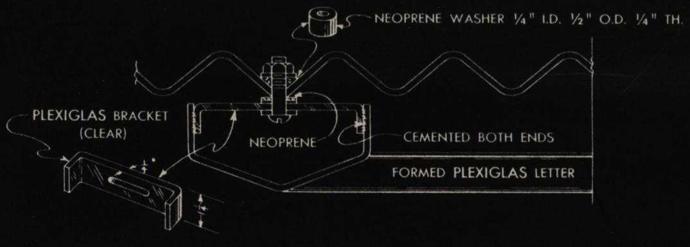


* MIRACLE ADHESIVE AND SURFACE ANCHORS AVAILABLE FROM H. N. DAVIS CO. 401 N. BROAD ST. PHILA., PA.

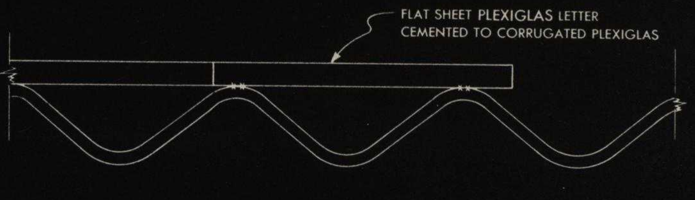
MOUNTING FORMED LETTERS TO CORRUGATED BACKGROUNDS



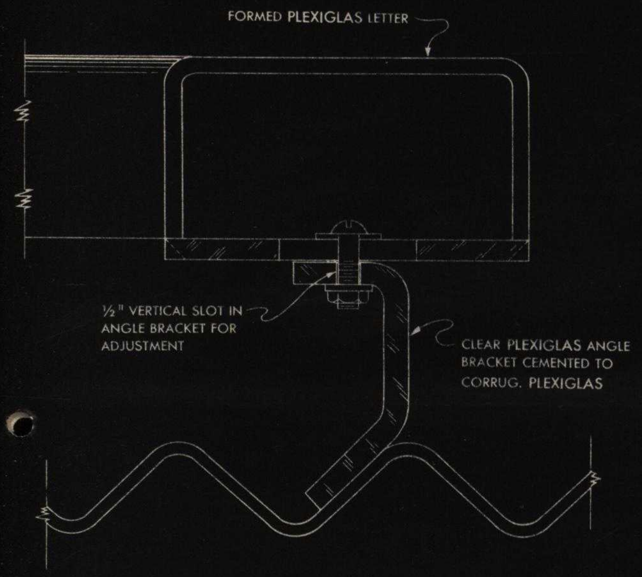

20° OPENING
½"
2⅝"
No. 16 GA. PHOS. BRONZE WIRE HOOK
PHOS.-BRONZE SPRING ½" O.D.
(7 TURNS No. 16 GA. FREE HEIGHT = 1³/₁₆")
LOAD DEPRESSED ½" = 10 LBS.

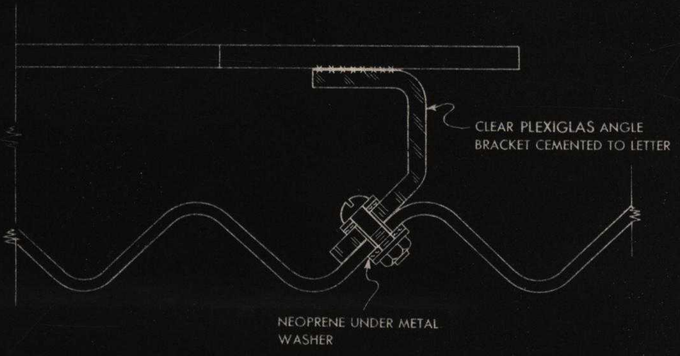

NEOPRENE WASHER ¼" I.D. ½" O.D. ¼" TH.
PLEXIGLAS BRACKET (CLEAR)
NEOPRENE
CEMENTED BOTH ENDS
FORMED PLEXIGLAS LETTER

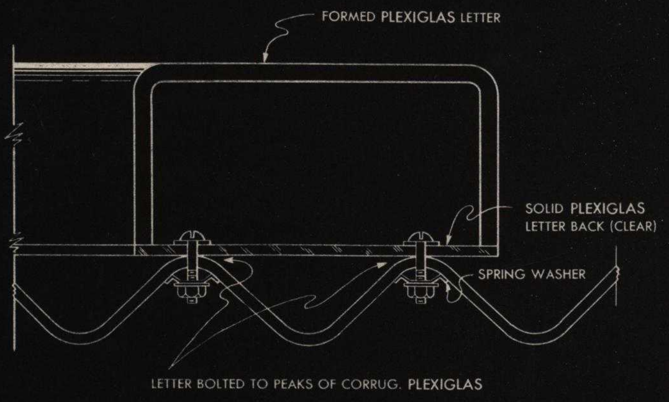
FLAT PLEXIGLAS LETTERS

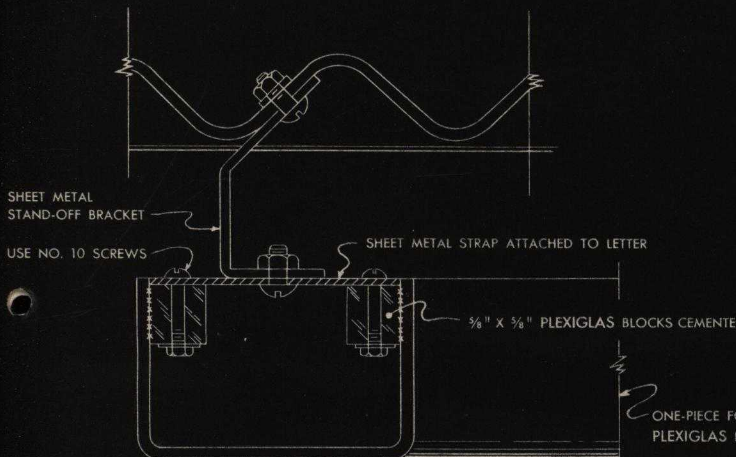

FLAT SHEET PLEXIGLAS LETTER CEMENTED TO CORRUGATED PLEXIGLAS

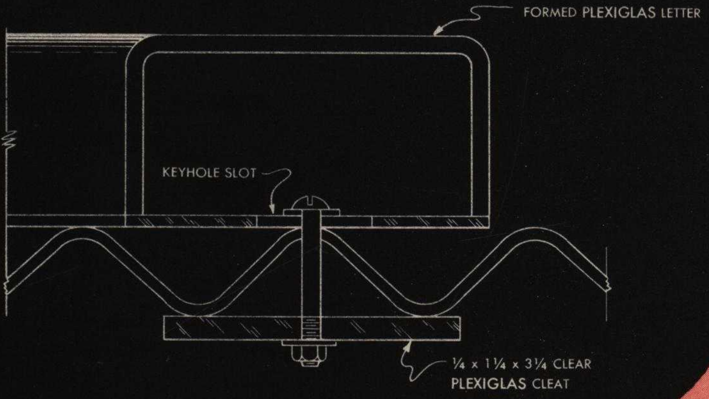
MOUNTING FORMED LETTERS TO CORRUGATED BACKGROUNDS


FORMED PLEXIGLAS LETTER
½" VERTICAL SLOT IN ANGLE BRACKET FOR ADJUSTMENT
CLEAR PLEXIGLAS ANGLE BRACKET CEMENTED TO CORRUG. PLEXIGLAS


CLEAR PLEXIGLAS ANGLE BRACKET CEMENTED TO LETTER
NEOPRENE UNDER METAL WASHER


FORMED PLEXIGLAS LETTER
SOLID PLEXIGLAS LETTER BACK (CLEAR)
SPRING WASHER
LETTER BOLTED TO PEAKS OF CORRUG. PLEXIGLAS


SHEET METAL STAND-OFF BRACKET
USE NO. 10 SCREWS
SHEET METAL STRAP ATTACHED TO LETTER
⅝" X ⅝" PLEXIGLAS BLOCKS CEMENTED TO LETTER
ONE-PIECE FORMED PLEXIGLAS LETTER



PLEXIGLAS

PLEXIGLAS is the trade mark, Reg. U. S. Pat. Off., for a thermoplastic acrylic resin manufactured by the Rohm & Haas Company. It is produced as cast sheets in flat and corrugated form with smooth and patterned surfaces, and as rods and molding powders. Only Rohm & Haas makes PLEXIGLAS.

PLEXIGLAS SHEETS

STRENGTH Because of its inherent strength and resilience, PLEXIGLAS will withstand heavy blows.

PERMANENCE Resistant to age, weather, sun and most chemicals, it gives longlasting service in both indoor and outdoor applications.

LIGHT WEIGHT Less than half as heavy as glass, it is a front-rank light-weight material.

BEAUTY Sparklingly attractive in appearance, it strikes a note of beauty wherever it is used.

CLARITY In clear form, PLEXIGLAS is as transparent as the finest optical glass. The purity of the material makes possible its manufacture in a highly effective and extensive range of transparent, translucent and opaque colors.

WORKABILITY PLEXIGLAS can be formed, when heated to a pliable state, to almost any shape or curve; it can be sawed, machined and drilled as easily as woods or soft metals. The excellent workability of the plastic gives broad scope to the work of product designers.

PHYSICAL PROPERTIES

MECHANICAL

Specific Gravity	1.18
Tensile Strength	6,800 - 8,800 psi
Flexural Strength	13,000 - 15,000 psi
Compressive Strength	13,000 - 15,000 psi
Impact Resistance, ASTM Charpy Unnotched Bar	3 - 4 ft. lb.
Modulus of Elasticity	3 - 4 x 10^5 psi
Coefficient of Expansion	8 x 10^{-5}/°C.
Water Absorption (max. wt. gain, 24 hours)	0.6%

PLEXIGLAS has excellent dimensional stability. It is featured by a marked resistance to cold flow or creep, and its impact strength remains high at low temperatures.

ELECTRICAL

Dielectric Strength (short time test)	500 volts/mil
Power Factor (at 60 cycles)	5—6%
Dielectric Constant (at 60 cycles)	3.4—3.6

The efficiency of PLEXIGLAS as an insulator is not affected by age, weather or immersion in water.

THERMAL

Resistance to Heat (°F. continuous)	140°—160°F.
Coefficient of Thermal Expansion	.00005 in./in./°F. at 77°F.

A special heat-resistant material, PLEXIGLAS II, has an effective maximum service temperature of 180°—200°F.

OPTICAL

Light Transmission	90—92%
Refractive Index N_D	1.488—1.489
Dispersion N_F-N_C	0.008

In addition to its excellent transmission of all visible colors of the spectrum, PLEXIGLAS transmits infra-red, ultra-violet and X-rays. For special applications, an ultra-violet absorbing grade is available. PLEXIGLAS is also noted for its ability to "pipe" light, even around curves and angles.

CHEMICAL

Unaffected by:	*Affected by:*
Automotive gasoline	Concentrated alcohols
Many chemicals, in solution	Benzene
Kerosene, hexane, white gasoline	Acetone
Mineral oils and greases	Lacquer thinners
Animal oils and greases	Aviation gasoline
Photographic solutions	Carbon tetrachloride
Battery solutions	
Mineral acids	
Strong alkalis	
Most liquid window-cleaning compounds	

RATE OF BURNING

PLEXIGLAS is classified as "Slow Burning" under Federal Specifications LP-406A. Hot metals will not ignite it; if ignited by an open flame, it burns as slowly as medium density wood.

PLEXIGLAS is tasteless, odorless, and completely compatible with human tissue.

PLEXIGLAS is thermoplastic, and its properties will vary slightly with temperature changes. Values given apply for 25°—30°C.

COLORS

Widely used as a colorless, sparkling material, PLEXIGLAS is also available, for applications where color is desired, in the following standard colors:

Amber Blue Green Red Yellow	Transparent	Red Translucent Red Fluorescent White Translucent Green Fluorescent Black Opaque Yellow Fluorescent

Custom-made colors and shades are available on quantity orders.

PLEXIGLAS SHEETS

TYPES—SIZES—THICKNESSES

FLAT SMOOTH

Standard cast sheets are flat and smooth, with highly polished surfaces of sparkling natural beauty in both clear and colored form.

PATTERNED

Patterned PLEXIGLAS provides an interesting surface texture in many decorative and architectural applications. Eleven standard patterns, such as fluted, ribbed, pebbled and frosted, are available.

FLUORESCENT

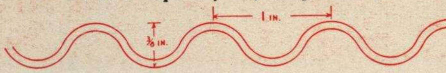
DAYLIGHT FLUORESCENT PLEXIGLAS, recently introduced, is a self-illuminating material used for indoor signs and decorative panels. With it, "edge-lighted" effects are obtained without directing light into the plastic. Currently available in yellow, red and green.

CORRUGATED

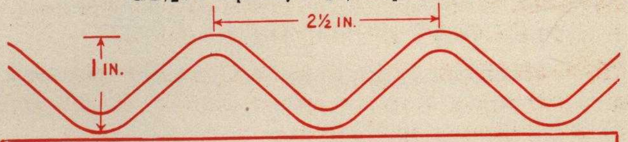
PLEXIGLAS is also available as corrugated material, for applications where a combination of vertical rigidity and horizontal flexibility is desired. It is produced in two degrees of corrugation:

TYPES

C-1: Frequency 1", Amplitude ⅜"



C-2½: Frequency 2½", Amplitude 1"



RODS

Satin-finish PLEXIGLAS rods are offered in diameters of 1" to 2". Lengths range from 12" to approximately 60" Information sent on request regarding specific lengths.

THICKNESSES (INCHES) \ SIZES (INCHES)	6 x 12	12 x 12	12 x 18	12 x 24	12 x 36	12 x 48	12 x 60	18 x 18	18 x 24	18 x 36	18 x 60	20 x 50	24 x 24	24 x 36	24 x 48	24 x 60	30 x 36	30 x 48	36 x 36	36 x 48	36 x 60	36 x 72	40 x 50	48 x 48	48 x 60	48 x 72	53 x 80	60 x 72	64 x 79	67 x 79	up to 100 x 120
.040	1	1	1	1	1	1		1	1	1		1	1	1	1				1	1			1								
.060	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1,6			1		1	1,2,3,6	1,3,6		1,3,6								
.080	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1	1	1		1								
.100	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1	1	1	1	1		1						
.125	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1,6	1	1	1	1	1	1,2,3,4,5,6	1,3,6	1,3	1,3,6	1,2,3	1,3	1,3	1	1,3	3	1	
.150	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1,6	1	1	1	1	1	1,6	1,6	1,3	1,3	1,2,3	1,3	1,3	1	1,3	3	1	
.187	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1,6	1	1	1	1	1	1,2,3,6	1,3,6	1,3	1,6	1,2,3	1,3	1,3	1	1,3	3	1	1
.220	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1	1	1	1	1	1	1,2,3	1,3	1	1,3	1	1,3	1,3	1	1,3	3	1	1
.250	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1,6	1	1	1	1	1	1,2,3,4,5,6	1,3,6	1,3	1,6	1,2,3	1,3	1,3	1	1	3	1	1
.312	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1,6	1,6	1	1	1	1	1	1	1		1	1
.375	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1,6	1,6	1	1,6	1	1	1	1	1		1	1
.500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1,6	1	1,6	1	1	1	1	1	1	1	1		1	1
.625 to 2.000*	1	1		1	1	1						1	1	1	1	1		1	1	1			1		1						
2.250 to 3.000#					1									1						1											

CODE: 1—Flat Smooth, **2**—Corrugated, Type C-1, **3**—Corrugated, Type C-2½, **4**—Patterned, **5**—Corrugated-Patterned, **6**—Fluorescent.

*.625" to 2.000" in increments of .125". #2.250" to 3.000" in increments of .250", with unfinished surfaces varying from machine-planed to high gloss.

NOTE: COLORS—Colors (see page 6) are available in the following sizes: 20"x50", 24"x36", 36"x48", 36"x60", 40"x50", in the following thicknesses: .060", .125", .187", .250". In addition, Red, Amber, and Black are available in 36"x48" sheets in thicknesses of .312", .375", .500", .625", .750", 1.000".

PLEXIGLAS MOLDING POWDERS PLEXIGLAS acrylic molding powders are transformed by the heat and pressure of molding presses into products distinguished for their strength, light weight, permanence and sparkling beauty. Such moldings also have the excellent dimensional stability, optical and electrical properties, and resistance to chemicals that characterize products fabricated from sheet material. In applications calling for a large number of identical parts, PLEXIGLAS molding powders give superior results, with production efficiency. A reliable custom molder should be consulted in the design of molded products. **GRADES** PLEXIGLAS molding powders are available in various grades, for injection and compression molding, and extrusion. An outstanding example is PLEXIGLAS V, an injection molding powder that imparts high heat stability (ASTM Heat Distortion Temperature — 198°F.) and exceptional clarity to molded parts. **COLORS** Naturally colorless and crystal-clear, PLEXIGLAS molding powders are also available in Amber, Aquamarine, Black Opaque, Blue, Green, Purple, Red, Tortoise Shell, Violet, White Opaque and Yellow.

PLEXENE M, a modified styrene injection molding powder, offers advantages over unmodified styrene powders in heat resistance, weatherability and resistance to inks, gasoline and other solvents.

PLEXENE T, a remarkable new Rohm & Haas thermoplastic molding powder, the only styrene-base copolymer molding powder with impact strength in the high cellulosic range, a unique material offering marked advantages to manufacturers and users of molded parts. *PLEXENE is a trademark Reg. U. S. Pat. Off.*

PLEXIGLAS SHEETS

FORMS—Flat, Corrugated, Patterned

SIZES—6 x 12 inches to 8 x 10 feet

THICKNESSES—From 1/16 inch to 3 inches

ALSO AVAILABLE IN COLORS:
Transparent, Translucent, Opaque, Fluorescent

•

PLEXIGLAS catalogues appear in *Sweet's File for Product Designers* and in *Sweet's File—Architectural.*

•

Detailed information on prices, sizes, thicknesses and colors is contained in the PLEXIGLAS Price List, available from any Rohm & Haas sales office on request.

LITERATURE

Helpful information on PLEXIGLAS is given in a series of booklets, manuals and bulletins issued by Rohm & Haas. The literature contains full technical data on the properties of the material, outlines principles of design, and covers methods of fabrication and installation.

FABRICATION—The Rohm & Haas Company does not engage in the commercial fabrication of PLEXIGLAS installations. Applications involving the curving, forming and machining of PLEXIGLAS sheets to desired specifications should be executed by fabricators who are experienced in working with the material. Information regarding such fabricators may be obtained from sales offices listed at right.

PLEXIGLAS *is a trade mark, Reg. U. S. Pat. Off.*

FIELD REPRESENTATIVES

Technically trained field representatives will be glad to assist in the selection of the best form of PLEXIGLAS for specific applications, advise on problems of design and installation, and suggest qualified fabricators. Their services are augmented by the staff of a completely equipped fabricating and design laboratory maintained by Rohm & Haas, where new applications for PLEXIGLAS and new techniques in its fabrication and installation are studied and developed.

To take advantage of the extensive practical experience of Rohm & Haas representatives, in any problem dealing with the properties or applications of PLEXIGLAS, call or write the nearest of the following sales offices:

Philadelphia 5, Pa.
Washington Square,
Telephone: LOmbard 3-9860

Los Angeles 36, Calif.
5657 Wilshire Boulevard,
Telephone: Webster 1-1491

San Francisco 5, Calif.
Room 731, 25 Beale Street,
Telephone: Douglas 2-6664

Detroit 2, Michigan
728 Fisher Building,
Telephone: Trinity 3-3200

Dallas 1, Texas
310 Southland Bldg., Annex,
209 Browder Street,
Telephone: Riverside 6593

New York 18, New York
11 West 42nd Street,
Telephone: Longacre 3-2390

Chicago 4, Illinois
25 East Jackson Boulevard,
Telephone: Wabash 3076

Boston, Mass.
Statler Office Building
Telephone: Hancock 6-7675

Kansas City 6, Missouri
1221 Baltimore Avenue,
Telephone: Victor 6850

Canadian Distributors:
Crystal Glass & Plastics, Ltd.,
282 St. Helens Avenue, Toronto, Ontario

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ROHM & HAAS COMPANY
WASHINGTON SQUARE • PHILADELPHIA 5 • PA.